SQL Neat Tips and Tricks

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What this presentation will cover:

- Library Groups
 - Limit to a group
 - o Group Description instead of ID
- Links
 - Other Reports
 - Edit Report
 - Edit directly (patron, bib, item, system pref)
- Action Logs

Library Groups

Limit to a Library Group

WHERE (library_groups.parent_id= <<Group|GROUPS>>)

Run the report

SELECT

items.barcode,items.itemcallnumber,biblio.title,biblio.author,items.damaged,items.itemlost,items.ccode,

items.withdrawn,items.notforloan,items.location,items.homebranch

FROM items

LEFT JOIN biblioitems ON (items.biblioitemnumber=biblioitems.biblioitemnumber)

LEFT JOIN biblio ON (biblioitems.biblionumber=biblio.biblionumber)

LEFT JOIN library_groups ON (items.homebranch=library_groups.branchcode)

WHERE library_groups.parent_id=<<Group|GROUPS>>

ORDER BY items.homebranch, items.ccode, items.itemcallnumber ASC

All Districts and Groups All Districts and Groups Asotin County Library System Asotin High School Clarkston School District Clearwater Memorial Public Library Culdesac School District Grangeville Centenial Library Kamiah School District Lapwai School District Latah County Library District Lewiston City Library - LEW and CRR Lewiston School District Mountain View School District Prairie High School Prairie River Library District School District 171 - THS and OHS

Library Groups with Group Description Not ID (example)

For this one you have to call the table twice, once as Ig_child and once as Ig_parent

FROM library_groups lg_child LEFT JOIN library_groups lg_parent ON (lg_child.parent_id = lg_parent.id)

Then in your SELECT statement you can call Ig_parent.description to get the description of the group/district rather than a number.

description to get the

| Ig_parent.id, |
| Ig_parent.title AS parent_title, |
| Ig_parent.description AS parent_description, |
| branches.branchname, |
| Ig_child.branchcode AS child_branch |
| FROM |
| Ibrary_groups Ig_parent |
| LEFT JOIN library_groups Ig_child on (Ig_parent.id = Ig_child.parent_id) |
| LEFT JOIN branches ON (Ig_child.branchcode = branches.branchcode)

WHERE Ig parent.parent id = 1

Links

Links in Reports

Links in reports all start as a CONCAT statement because you need to put together multiple parts:

SELECT CONCAT()

Within the CONCAT statement, you then add the start of your link:

SELECT CONCAT('<a href=\"/cgi-bin/koha/reports/guided reports.pl?reports=',

By starting the link at /cgi-bin it can be run on any Koha system (say your server+test server or shared on the reports library) without having to edit the link syntax. We stopped after the '=' because the next part is going to be populated by our report as the ID of the report listed.

SELECT CONCAT('<a href=\"/cgi-bin/koha/reports/guided_reports.pl?reports=', id,

This gives a link to the listed reports in the first column of the report results based on the id of the report.

Links in Reports - Example Report

Next we are going to add the end of the link. I always like to make links open in new tabs, so I add a blank target.

SELECT CONCAT(''

Next you need to define what the link will be output as (rather than listing the whole link, what do you want that column to say.)

SELECT CONCAT('', id, '') **AS** id

You can have it say the same work in each column or fill it based on a field. In my example, I called the id field and finally defined the column as id so the column heading would be called ID.

You can take it a step further and add a link directly to edit the report. In my example report I wanted to see what reports needed to be changed when we did an update and with the below change I can go straight to editing the report:

SELECT CONCAT('", id, ''
) **AS** id

Links in Reports - Edit Patron Specific Section

select cardnumber,length(cardnumber), CONCAT('', borrowernumber, '') AS borrowernumber

Example Report (540)

Action Logs

Action Logs - Example

Sometimes it can be really difficult to find what you want in the action logs. This report, which I believe we got from the wiki, allows us to put in a patron barcode number and a date range to get the information we want.

```
Log.timestamp,
concat(librarian.firstname, '', librarian.surname, '(', librarian.cardnumber, ')') AS Librarian,
                                                                                         Log.action,
                                                                                         Log.object,
                                                                                          Log.info,
                                                                                       Log.interface
                                                                                                FROM
                                                                                    borrowers patron
                                                                                        INNER JOIN (
                                                     SELECT borrowernumber, reserve id FROM reserves
                                                                                               UNION
                                                SELECT borrowernumber, reserve id FROM old reserves
                                                                    ) AS hold USING (borrowernumber)
                   INNER JOIN action logs log ON log.object = hold.reserve id AND log.module='HOLDS'
                               LEFT JOIN borrowers librarian ON log.user = librarian.borrowernumber
                                                                                               WHERE
                                                         patron.cardnumber = <<borrower cardnumber>>
               AND log.timestamp BETWEEN <<Between (yyyy-mm-dd)|date>> AND <<and (yyyy-mm-dd)|date>>
                                                                              ORDER BY log.timestamp
```